









Vehicles Tomorrow	
■ Fuel Cell Vehicles	8
– Impact on gas tax revenues?	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
■ Drive by Wire	
 Skateboard Designs 	
- Electronic vs. Mechanical	
■ Features	
– OnStar on Steroids?	
 Adaptive Cruise Control 	
 Collision Avoidance Systems 	
 Roadway Departure Systems 	
 Audible Alarms (rumble strips) 	

Infrastructure - Now Search for long lasting, and maintenance-free pavement and bridges Better Designs to Increase Motorist Safety - Emphasis on reducing fatalities and crashes Travel Demand Management - Transportation – Land Use - Rideshare Initiatives: Car Pool Lots - Multi-modal: encourage transit, bike, walking Funding vs. Needs

Infrastructure - Future "Can't build our way out of congestion" Operations Initiatives - AASHTO Committee Formed - Signal Summit - Vehicle Infrastructure Integration Travel Demand Management - HOV / Lexus Lanes - Incident Management - Courtesy Patrol - Freeway Towing: Tow Desk Re-engineering - Ramp Metering Funding / Pricing - Gas tax on Alternative fuels - Tolls / Usage fees based on facility type/time of day

Societal Changes Aging Population Issues Drivers license age limit? Accessibility issues for: Retirees in a suburban development Health care access Increased role for transit? Development Patterns Impact Current: Increasing auto ownership (16 year olds for high school) New? New-Urbanism / mixed use impacts Increasing emphasis on a multi-modal transportation solution Congestion: anti-sprawl debates

Traffic Signal Summit Subcommittees: Signal Retiming Contract Streamlining Red Light Running Short Term / Hardware-Software Long Term / Strategy and Vision Data

Traffic Signal Summit Short Term Subcommittee
Goal: How to reduce fatalities and crashes x% within next 5 years?
 Some Issues being addressed: Developing a concept for the typical hardware installations in place within 5 years / cost? Compliance with national standards (MUTCD) Guidelines:
■ Pedestrian Signals
 Countdown Macomb County Road Commission: installations along Metro Parkway
Audible City of Rochester : Main Street Transit Signal Priority Systems
 Requires AVL, Electronic Schedule databases Updated Signal Controllers / Sensors



Traffic Signal Summit Long Term Subcommittee Develop a strategy for retiming signals on an ongoing basis. Interoperability of signals across multiple jurisdictions Traffic Management Centers Both for freeways and arterial (signal) management Disaster Recovery Centers for each other Metro Center will operate 24/7 while signal operations operate M-F, 9-5. Metro Center has ability to enact pre-set signal timing plans to react to both planned and unplanned events

Vehicle Infrastructure Integration (VII) Ad-hoc Coalition of FHWA, AASHTO and Alliance of Auto Manufacturers Development of 11 Use Cases DOT operations Weather- engagement strategy Pavement management Origin destination pair Traffic congestion Vehicle operations Diagnostic downloads Map updates Driver value Real Time traffic information Media downloads Safety Intersection- engagement strategy safety event recorder (black box) precision map development







